

*Columbia University Bulletin*

THE FACULTY OF MEDICINE

Courses in  
Physical Therapy  
and  
Occupational Therapy

*1973-1974*

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1973-1974

*To Communicate with the School*

ADDRESS INQUIRIES TO: Physical Therapy or Occupational Therapy, College of  
Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032

*Telephone:* (Area code 212) 579-3781

*Columbia University*

*Department of Rehabilitation Medicine*

Courses in  
Physical Therapy and  
Occupational Therapy  
1973-1974

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# Faculty of Medicine

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Ruth Dickinson, M.A. *Associate Director of Courses in Physical Therapy*

Adelaide A. Deutsch, M.A. *Associate Director of Courses in Occupational Therapy*

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Karen F. B. Diasio, O.T.R. *Assistant Clinical Professor of Occupational Therapy*  
B.S., M.A., Columbia

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B.S., Russell Sage; M.A., Certificate in Physical Therapy, Columbia

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B.Sc. (Med.), M.D., Manitoba; Ph.D., Oxford

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B.A., Lebanon Valley; Graduate, Philadelphia School of Occupational Therapy

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B.S., Illinois

A. David Gurewitsch. *Special Lecturer in Rehabilitation Medicine*  
M.D., Basel

Bernard Gutin. *Associate Professor of Education*  
B.A., Hunter; M.A., Ph.D., New York University

Bernadette Hecox. *Associate in Physical Therapy*  
B.S., M.A., Columbia

Morton Hoberman. *Clinical Professor of Rehabilitation Medicine*  
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B.S., Columbia

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B.S., College of the City of New York; M.A., Ed.D., Columbia

**William J. Mahoney.** *Professor of Art Education (Teachers College)*

B.S., M.A., Ed.D., Columbia

**Stanley J. Myers.** *Assistant Professor of Rehabilitation Medicine*

B.A., New York University; M.D., State University of New York (Downstate)

**Barbara E. Neuhaus, O.T.R.** *Instructor in Occupational Therapy*

B.A., Keuka; M.A., Certificate in Occupational Therapy, Columbia

**Charles R. Noback.** *Professor of Anatomy*

B.S., Cornell; M.S., New York University; Ph.D., Minnesota

**Margaret A. O'Neill.** *Instructor in Physical Therapy*

B.S., M.A., New York University

**Lucille T. Pai.** *Assistant Clinical Professor of Rehabilitation Medicine*

M.D., Women's Christian Medical College (Shanghai)

**Stephanie Presseller, O.T.R.** *Associate in Occupational Therapy*

B.A., San Jose; M.S., Pennsylvania

**Helen Schucman.** *Associate Professor of Medical Psychology*

B.A., M.A., Ph.D., New York University

**Eleanor W. Shelly, O.T.R.** *Instructor in Occupational Therapy*

B.S., West Chester State College; Certificate in Occupational Therapy, Columbia

**Charles Siegal.** *Associate in Psychiatry*

B.A., New York University; M.D., State University of New York (Downstate)

**Alfonso Solimene.** *Assistant Professor of Anatomy*

B.A., Brooklyn; M.A., Ph.D., Columbia

**Alice R. Trei, O.T.R.** *Instructor in Occupational Therapy*

B.S., New York University; Certificate in Occupational Therapy, Columbia

**Naomi L. Turner.** *Associate in Rehabilitation Medicine*

M.D., San Francisco Xavier (Bolivia)

**Shyh-Jong Yue.** *Associate Clinical Professor of Rehabilitation Medicine*

M.D., National College of Medicine (Shanghai)

## ► LECTURERS

**Michael C. Brook.** *Clinical Instructor in Psychiatry, New York Medical College*

M.A., East Carolina

**Elizabeth Caramintzou, O.T.R.** *Supervisor, Student Affiliations, Bellevue Hospital*

R.N., Athens (Greece); B.S., Richmond Professional Institute

**Roslyn R. Freudenthal.** *Statistical Consultant in Medical Research*

B.S., M.S., Ph.D., New York University



Ann C. Goldberg, O.T.R. *Chief Occupational Therapist, Lubin Rehabilitation Center*

B.S., Florida

Ruth Haughwout. *Supervisor, Clinical Education, Presbyterian Hospital*

B.S., Ithaca

Ann Lane, O.T.R. *Chief Occupational Therapist, Institute for the Crippled and Disabled*

B.S., Buffalo

Earl A. Lewis. *Prosthetic Research and Education Officer, Veterans Administration*

B.A., Brooklyn; Certificate in Physical Therapy, Stanford; M.A., New York University

Robert Stone. *Executive Director, Blythedale Children's Hospital, Valhalla, N.Y.*

B.S.S., College of the City of New York; M.S., Columbia

## ► ADMINISTRATIVE STAFF

Joyce Stichman, B.S. *Assistant to the Dean*

Bernis D. Moss, Jr., M.S. *Business Officer*

Eileen H. Daly. *Assistant Registrar of the University*

Margaret V. Richardson, B.A. *Administrative Assistant*



# Key to Course Listings

Each course number consists of capital letters followed by four digits and the term designation.

*The capital letters indicate the curriculum for whose students the course is primarily offered:*

- H.P. *Health Professions (conjoint courses for students of Physical Therapy and Occupational Therapy)*
- O.T. *Occupational Therapy*
- P.T. *Physical Therapy*

*The level of the course is represented by the first digit:*

- 3 *Undergraduate course, advanced*
- 4 *Graduate course which is open to qualified undergraduates*
- 6 *Graduate course*

*The subject area of the course is represented by the second digit:*

- 1 *Biological sciences*
- 2 *Behavioral sciences*
- 3 *Medical conditions*
- 4 *Treatment modalities*
- 5 *Professional concepts and treatment*
- 6 *Clinical experience*

## TERM DESIGNATIONS: X, Y, AND S

An x following the course number indicates that the course meets in the autumn term; a y indicates the spring term; and an s indicates the summer session.

# Courses in Physical Therapy

Physical therapy contributes to the comprehensive care of disabled, injured, and handicapped individuals. It is involved with the preservation of functional capacity, restoration of function, and the prevention of disability due to disease or injury. The ultimate aim is to help the patient attain his maximum performance and to assume his place in society while learning to live within the limits of his capabilities.

As a member of a group working cooperatively with the physician, nurse, social worker, occupational therapist, psychologist, and others, the physical therapist plays an important role in helping the patient attain the highest possible degree of physical, mental, social, and occupational independence. He participates in the evaluation of the patient by performing and interpreting tests and measurements of neuromuscular and musculoskeletal functions as an aid to treatment. He plans and implements treatment programs on the basis of these test findings and within the referral or prescription of the physician. Utilization of the therapeutic properties of exercise, heat, cold, electricity, sound, and massage, as well as assistive devices such as canes, crutches, and prostheses, are also among the means used to attain the goal of maximum performance and independence. Practice may encompass treatment of individual patients, planning and administering programs for groups of patients, or cooperative planning for community health programs. The physical therapist may work in hospitals, clinics, children's centers, private offices, rehabilitation centers, the U.S. Public Health Service, the Visiting Nurse Service, and other community health agencies. He may be self-employed, work part time, or enter the Armed Services. The experienced physical therapist may assume responsibilities in the administration of a physical therapy department and the supervision of other physical therapists and supportive personnel; he may become involved in academic or clinical teaching, participate in research, provide consultation services to agencies and members of other health professions, coordinate physical therapy services with those of other professions, and serve as an administrator in professional and supportive levels of education in physical therapy. Opportunities are excellent and limitless in the field of physical therapy, and the demand for qualified physical therapists far exceeds the present supply. The area of service, research, and education assures physical therapists an interesting selection of positions in this country and in many other parts of the world.

The student in the program of study at Columbia is expected to have a broad background in general education, including knowledge of the fundamental principles of the social, biological, and physical sciences. The professional curriculum is designed to provide the student with optimum opportunity for learning experiences in physical therapy, for participation as a member of the health team working cooperatively with physicians, other health workers, and related personnel, and for his unique role in helping the physically disabled in attaining independence. Opportunities are also provided for him to develop an appreciation of administrative

problems in the delivery of health care services and the ability to plan, organize, coordinate, and evaluate physical therapy services within the total health care plan. The overall aim is to provide society with a graduate who is a responsible citizen, well prepared to discharge his professional and social obligations, who will provide responsible leadership to his profession, contribute to the growth of physical therapy through continued study and practice, and utilize his intellectual and professional skills in contributing to the health care of society. In addition to demonstrations and practice and theoretical classroom instruction, there is concurrent clinical instruction and experience in teaching hospitals under University supervision.

The Bachelor of Science degree is awarded upon completion of the full two-year program. This program is based upon two years (60 semester credits) of college work in the liberal arts, including the proper science prerequisites.

The Certificate of Proficiency in Physical Therapy is awarded upon completion of the program (academic and clinical) prescribed for students of advanced standing. This program is based upon the work done for the bachelor's degree at an accredited college or university, including the courses required for admission to the program.

The courses described in this bulletin meet the requirements of both the American Physical Therapy Association and the Council on Medical Education of the American Medical Association. These organizations regulate the standards by which schools offering physical therapy courses are accredited. Graduates of either program are eligible for membership in the American Physical Therapy Association.

All states require licensing or registration of physical therapists, for which examinations are held at intervals during the year. A student should become familiar with the requirements in his state so that any required examination may be taken as soon as possible after graduation. In New York State the law requires that a graduate pass the qualifying examination conducted by the Department of Education of the State of New York. This examination is usually held in June and December of each year. According to the law in New York State, only those persons who are citizens or who have filed intentions of becoming citizens of this country may be considered for admission to the examination.

## ► ADMISSION REQUIREMENTS

All applicants receive consideration for admission without regard to race, creed, color, national origin, or sex.

Students are admitted only in September. In subjects taken at other institutions for which transfer credit is allowed, a grade of C or better is required. The ability to swim is required by the second term for both programs of study. Students unable to swim at the time of admission are responsible for securing instruction for themselves before the second term. All students must also have a basic course in first aid (college or Red Cross). Applicants for admission must be graduates of approved high schools or the equivalent, and then must satisfy *one* of the following:

### FOR THE DEGREE PROGRAM

The completion of at least 60 semester credits (two years) of liberal arts courses

in a college approved by Columbia University. Courses must include (a) 8 semester credits in biological science, (b) 8 semester credits in general physics, (c) 6 semester credits in English, and (d) 6 semester credits in psychology.\* Elective courses in foreign languages, literature, humanities, social sciences, and natural sciences are recommended. Students who have had a balanced education are preferred.

Credit will not be granted for commercial, home economics, physical education, or vocational courses.

#### FOR THE CERTIFICATE PROGRAM

Graduation from an approved college with at least a Bachelor of Science or Bachelor of Arts degree, the undergraduate work to include (a) 8 semester credits in biological science, (b) 8 semester credits in physics, (c) 6 semester credits in English, and (d) 6 semester credits in psychology.\* Elective courses in foreign languages, literature, humanities, social science, and natural sciences are recommended. Students who have had a balanced education are preferred.

#### ADMISSION PROCEDURE

Application forms may be obtained by writing to Courses in Physical Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032, and should be filed by July 1 of the year preceding the academic year in which the student wishes to begin his studies. The completed form must be accompanied by the application fee (see page 37). This fee is not returnable and is not credited toward tuition. Transcripts of all post-secondary education should be forwarded by the registrars of the respective schools directly to the Director of Courses in Physical Therapy.

#### FOREIGN STUDENTS

Students from other countries are urged to apply for admission several months in advance of the time they wish to begin their studies. Application must be made on the form provided by Courses in Physical Therapy. The applicant must fulfill the usual admission requirements, as all students are considered for admission on the same basis.

At the time application is filed, records must be submitted of all college or university education completed. These will be evaluated to determine the equivalency of the applicant's educational background in terms of admission requirements.

Information about foreign-student clubs at Columbia and about opportunities to attend conferences, travel in the United States, and participate in community and cultural activities, as well as maps of New York City and discount tickets to concerts and plays may be obtained in Room 106, Foreign Student Center, on the Morningside campus. Earl Hall Center, on the main campus, acts as a forum for the development of religious and other programs, and houses many foreign-student

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\* Requirements for admission to the licensure examination for physical therapists in the state of New York include 6 semester credits in biology, 6 in chemistry, and 6 in physics. Students who plan to practice in New York State should accordingly fulfill these requirements.

clubs. The Intercultural Program Office (telephone 280-3581), 302 Earl Hall, arranges for foreign students to visit American families, observe or participate in urban community programs, and take part in intercultural seminars and weekend communications workshops. Information may also be obtained from this office about the weekly international luncheons held in the Dodge Room of Earl Hall.



# Programs of Study

The University reserves the right to withdraw or modify these courses or to change the instructors as may be necessary. See page 7 for the Key to Course Listings.

The following programs are summarized on page 15.

## ► DEGREE PROGRAM

Degree candidates take the entire program of courses listed below.

## ► CERTIFICATE PROGRAM

The certificate program consists of the starred courses listed below.

### JUNIOR YEAR: AUTUMN TERM

#### **\*H.P. 3101x. Human anatomy**

Professor Solimene and Miss Hecox. 3 points.

Anatomy of the human body, with emphasis on those features which are most important for muscular activity. Instruction is given by means of lectures and laboratory work, the latter based on prepared dissection of the human body.

#### **\*H.P. 3103x. Anatomy of the nervous system**

Professor Noback. 2 points.

Anatomy of the nervous system of man, including the structural unit, the cerebrospinal system, and the autonomic system. Attention to the gross divisions of the brain, spinal cord, and peripheral nerves, with emphasis on the controls affecting voluntary motion.

#### **\*H.P. 3105x. Human physiology**

Professor Emmers and associates. 3 points.

A comprehensive discussion of the major organ systems of the human body, with emphasis on neurophysiology and the physiology of exercise. Assigned readings and selected demonstrations.

#### **\*P.T. 3107x. Applied anatomy and kinesiology, I**

Professor Dickinson and associates. 2 points.

Application of knowledge of gross anatomy of skeletal and muscular systems to mechanics of bodily movement; application of neurophysiological principles to human motion. Analysis of skills used in daily activity. Lectures and laboratory.

#### **\*P.T. 3431x. Movement experiences and perceptual learning**

Professor Jones and Miss Hecox. 2 or 3 points.

A foundation course in physical therapy procedures given in two sections: (1) basic techniques of massage, relaxation, and range of motion; and (2) analysis of the dynamics of human motion through student participation. Understanding of these fundamental principles and ideas enables adequate transfer of training to other phases of the profession. Degree candidates take the third point which requires a discussion paper after two field trips designed to introduce them to cross-cultural philosophies and approaches to normal human movement training. Lectures and laboratory.

**\*P.T. 3551x. Health care strategy**

Professors Jones and Schucman, and associates. 2 or 3 points.

Basic theory and fundamental skills of physical therapy needed in patient care. Weekly group meetings with representatives of the health professions to help students explore the role of physical therapy. Clinical assignments to physical therapy departments. Emphasis on comprehensive health care and gaining appreciable knowledge about persons to whom care is given. Degree candidates take the third point which includes an individual or group project to extend their knowledge in the areas of community health, teaching, or comprehensive health care.

**JUNIOR YEAR: SPRING TERM****\*P.T. 4108y. Applied anatomy and kinesiology, II**

Professors Emmers and Jones. 2 points.

Normal growth and development as a means of evaluation; application of neurophysiological principles to human motion.

**\*P.T. 4322y. Clinical psychiatry**

Professor Schucman and Dr. Siegal. 2 or 3 points.

All students take 2 points in the etiology and symptomatology of the major and minor psychoses, including the psychoneuroses and their treatment. Degree candidates take the third point which includes a survey of psychological tests and measurements, and interpretation of their results for the physical therapist.

**\*H.P. 4325y. Neurological conditions**

Instructor to be announced. 2 points.

Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerves.

**\*H.P. 4327y. Orthopedic conditions**

Professor Andrews. 2 points.

Lectures and clinical presentations, including discussion of related social, medical, surgical, and rehabilitative problems.

**P.T. 3432y. Principles and application of exercise in treatment**

Professors Darling and Jones, and associates. 4 points.

The basic principles of therapeutic exercise, including physiology of exercise and muscle re-education, muscle evaluation, tests and measurements, and evaluation of functional activities. Principles of teaching activities to patients; analysis of skills used in daily activity and other activities in physical therapy. Lectures and laboratory.

**\*P.T. 3434y. Electrotherapy, thermotherapy, and hydrotherapy**

Dr. Turner and Miss Hecox. 3 points.

Physiological principles and technique of the diagnostic and therapeutic uses of electricity, sound, heat, cold, and water and other liquids in therapy. Lectures and laboratory.

**SUMMER**

Degree candidates spend six weeks in full-time clinical education and experience at one or more of the affiliated hospitals (see pages 16–18). They attend lectures, clinics, and staff meetings, receive supervised practical experience in physical therapy, prepare a case study, and are introduced to related treatment departments.

Certificate candidates have a similar experience for eighteen weeks (late May, June, July, August, and September).



## SENIOR YEAR: AUTUMN TERM

**TR3271 (Teachers College). Applied physiology**

Professor Gutin. Tu 5:10–7:20 p.m. 3 points.

Human physiological response to exercise. Effects of age, sex, physical fitness, and environmental conditions. The place of exercise in human health and fitness. Laboratory experiences included.

**\*H.P. 4323x. Medical and surgical conditions**

Professors Downey (medicine) and Bertsch (surgery). 2 points.

*Medical conditions:* a survey of medicine, with emphasis on medical conditions commonly seen by therapists. Lectures deal primarily with the relationship of pathological physiology to the development of signs and symptoms of disease. *Surgical conditions:* a survey of those common diseases for which surgical treatment is emphasized, including the underlying anatomy, pathology, and biochemistry.

**\*H.P. 4560x. Health administration: fundamentals, principles, and concepts**

Mr. Stone. 2 points.

The principles of organization and management; the contributions of community and professional interests in health planning and delivery; the functions, structure, goals, and economics of various types of health care institutions and agencies; the rights, responsibilities, and accountability within the employer-employee-consumer triad; the role of the administrator of a service department (occupational therapy and physical therapy) within the system.

**P.T. 3681x. Clinical experience**

Professor Dickinson (coordinator). 5 points.

Lectures, observation, demonstrations, and supervised practice in various clinics of physical therapy facilities and rehabilitation. Scheduled meetings on assigned reading, reports, and orientation to program planning.

**Electives (3 points).**

## SENIOR YEAR: SPRING TERM

**TR4295 (Teachers College). Exercise and health**

Professor Gutin. Tu 5:10–7:20 p.m. 3 points.

Prerequisite: Introductory work in physiology or applied physiology.

The preventive and rehabilitative uses of exercise in health problems such as cardiovascular disease, respiratory disease, overweight and obesity, musculo-skeletal disorders, and general resistance to stress. Techniques of testing and training for persons of various ages and health status are analyzed for possible harmful and beneficial effects. Students may gain experience in both laboratory and field tests of organic fitness.

**\*P.T. 3554y. Survey of medical and surgical conditions in relation to rehabilitation medicine**

Professor Darling and associates. 3 points.

This course gives the student a clear acquaintance with disease as it occurs in the practice of rehabilitation medicine. Specialists discuss the problems in their fields of practice, including particular pathology and the needs of rehabilitation medicine. This analysis is followed by prescriptive physical therapy to cover these special indications. There is concurrent clinical practice in hospitals.

**P.T. 3682y. Clinical experience**

Professor Dickinson (coordinator). 6 points.

A continuation of *P.T. 3681*, with opportunity for in-depth experience in the area of the student's choice.

**Electives (3 points).**

## SENIOR YEAR ELECTIVES

Elective courses are chosen with the approval of the adviser. Consult the bulletins of Teachers College and the School of General Studies for suitable electives.

# Outline of the Programs

## B.S. DEGREE PROGRAM

JUNIOR YEAR: AUTUMN TERM	POINTS	JUNIOR YEAR: SPRING TERM	POINTS
H.P. 3101: Human anatomy	3	P.T. 4108: Kinesiology, II	2
H.P. 3103: The nervous system	2	P.T. 4322: Clinical psychiatry	3
H.P. 3105: Human physiology	3	H.P. 4325: Neurological conditions	2
P.T. 3107: Kinesiology, I	2	H.P. 4327: Orthopedic conditions	2
P.T. 3431: Movement experiences and perceptual learning	3	P.T. 3432: Principles and application of exercise	4
P.T. 3551: Health care strategy	3	P.T. 3434: Electrotherapy, thermotherapy, and hydrotherapy	3
Total points	16	Total points	16
SENIOR YEAR: AUTUMN TERM	POINTS	SENIOR YEAR: SPRING TERM	POINTS
TR3271: Applied physiology	3	TR4295: Exercise and health	3
H.P. 4323: Medical and surgical conditions	2	P.T. 3554: Medical and surgical conditions in relation to rehabilitation medicine	3
P.T. 3681: Clinical experience	5	P.T. 3682: Clinical experience	6
H.P. 4560: Health administration	2	Electives	3
Electives	3	Total points	15
Total points	15		

SEMINAR: monthly during the spring term of the senior year.

CLINICAL OBSERVATION, EDUCATION, AND SUPERVISED EXPERIENCE: in late May and June, or July and August, between the junior and senior years.

## CERTIFICATE PROGRAM

AUTUMN TERM	POINTS	SPRING TERM	POINTS
H.P. 3101: Human anatomy	3	P.T. 4108: Kinesiology, II	2
H.P. 3103: The nervous system	2	P.T. 4322: Clinical psychiatry	2
H.P. 3105: Human physiology	3	H.P. 4325: Neurological conditions	2
P.T. 3107: Kinesiology, I	2	H.P. 4327: Orthopedic conditions	2
H.P. 4323: Medical and surgical conditions	2	P.T. 3432: Principles and application of exercise	4
P.T. 3431: Movement experiences and perceptual learning	2	P.T. 3434: Electrotherapy, thermotherapy, and hydrotherapy	3
P.T. 3551: Health care strategy	2	P.T. 3554: Medical and surgical conditions in relation to rehabilitation medicine	3
H.P. 4560: Health administration	2		
Total points	18	Total points	18

SEMINAR: monthly during the spring term.

CLINICAL EDUCATION AND SUPERVISED EXPERIENCE: following completion of the course work for eighteen weeks.

# Hospitals Affiliated for Clinical Education

During the autumn and spring terms, attendance in the hospitals and clinics listed below is concurrent with regular classroom work for all candidates. In the summer, both degree candidates and certificate candidates are required to spend a period in full-time clinical practice (see "Summer," page 13). During this period students attend lectures, clinics, and staff meetings, receive supervised practical experience in physical therapy, and are introduced to related treatment departments.

## BETH ISRAEL MEDICAL CENTER, NEWARK, N.J.

Lester Bornstein. *Executive Director*  
Leila Steresco, M.D. *Chief, Department of Physical Medicine*  
(Mrs.) Gwendoline McCullagh. *Chief Physical Therapist*

## BETH ISRAEL MEDICAL CENTER, NEW YORK, N.Y.

Joseph Rogoff, M.D. *Director, Department of Rehabilitation Medicine*  
Henry Stano. *Chief Physical Therapist*

## BLYTHEDALE CHILDREN'S HOSPITAL, VALHALLA, N.Y.

Robert Stone. *Executive Director*  
Niels L. Low, M.D. *Clinical Director*  
Yasoma B. Challenor, M.D. *Chief, Rehabilitation Medicine*  
Renee Leimgruber. *Chief Physical Therapist*

## BURKE REHABILITATION CENTER, WHITE PLAINS, N.Y.

John Homjak. *Administrator*  
Edward J. Lorenze, M.D. *Medical Director*  
Anthony De Rosa. *Coordinator of Rehabilitation and Education Services*  
Pat Pechtl. *Director, Physical Therapy*

## GOLDWATER MEMORIAL HOSPITAL, NEW YORK UNIVERSITY MEDICAL CENTER, WELFARE ISLAND, N.Y.

Matthew Lee, M.D. *Director, Rehabilitation Medicine Service*  
Alice L. Eason. *Chief, Physical Therapy Department*

## HACKENSACK HOSPITAL, HACKENSACK, N.J.

Lawrence Smith. *Administrator*  
Dominic R. Vistocco. *Chief Physical Therapist*  
(Mrs.) Judy Levitas. *Clinical Supervisor*

## HARLEM HOSPITAL CENTER, NEW YORK, N.Y.

Albert D. Anderson, M.D. *Director Rehabilitation Medicine*  
Joseph Malloy. *Chief Physical Therapist*  
Karen Miller. *Student Supervisor*

## HARTFORD REHABILITATION CENTER, INCORPORATED, HARTFORD, CONN.

Arthur D. Wolf, M.D. *Supervising Medical Consultant*  
Dolly Burns. *Supervisor, Physical Therapy Department*

## HOSPITAL FOR SPECIAL SURGERY, NEW YORK, N.Y.

Leon Root, M.D. *Medical Director*  
 Judith M. Kurtz. *Administrator, Rehabilitation Medicine*  
 Elizabeth Quinn. *Chief Physical Therapist*

## I.C.D. REHABILITATION AND RESEARCH CENTER, NEW YORK, N.Y.

Salvatore DiMichael, Ph.D. *Director*  
 Lawrence W. Friedmann, M.D. *Medical Director*  
 Theodore Corbitt. *Supervising Therapist*

## INSTITUTE OF REHABILITATION MEDICINE, NEW YORK UNIVERSITY

MEDICAL CENTER, NEW YORK, N.Y.  
 Howard A. Rusk, M.D. *Director*  
 Donald Covalt, M.D. *Medical Director*  
 Jack M. Hofkosh. *Supervisor, Physical Therapy Department*

## KESSLER INSTITUTE FOR REHABILITATION, WEST ORANGE, N.J.

William K. Page, Jr. *Executive Director*  
 Henry H. Kessler, M.D. *Director of Professional Education and Research*  
 Richard Sullivan, M.D. *Medical Director*  
 James Tucker. *Director of Physical Therapy*

## KINGS COUNTY HOSPITAL CENTER, BROOKLYN, N.Y.

Joseph G. Benton, M.D. *Director, Rehabilitation Medicine*  
 (Mrs.) Phyllis Kraut Ford. *Supervisor, Physical Therapy*  
 Heidi Vorchheimer. *Clinical Education Supervisor*

## MERCER HOSPITAL, TRENTON, N.J.

Charles Stewart. *Administrator*  
 Gary Savander. *Chief Physical Therapist*

## MIDDLESEX REHABILITATION HOSPITAL, NORTH BRUNSWICK, N.J.

Maurice Dorsen. *Administrator*  
 Mark Friedman, M.D. *Attending Physiatrist*  
 (Mrs.) Margaret O'Neill. *Chief Physical Therapist*

## MONMOUTH MEDICAL CENTER, LONG BRANCH, N.J.

Felix Pilla. *Administrator*  
 Arthur Weisbrode. *Chief Physical Therapist*  
 Robert Blom. *Clinical Coordinator*

## MONTEFIORE HOSPITAL AND MEDICAL CENTER, NEW YORK, N.Y.

Martin Cherkasky, M.D. *Director*  
 George Vagias. *Director of Physical Therapy*

## MORRISTOWN MEMORIAL HOSPITAL

Robert G. Boyd. *Administrator*  
 Martin E. Lasoff, M.D. *Director, Physical Medicine and Rehabilitation*  
 Virginia Bertholf. *Chief, Physical Therapy*

## MOUNT SINAI HOSPITAL, NEW YORK, N.Y.

S. David Pomrinse, M.D., *Director*  
 Lawrence H. Wisham, M.D. *Chief of Rehabilitation Medicine*  
 John Capecci. *Director, Physical Therapy*

## NEW YORK HOSPITAL, NEW YORK, N.Y.

Willibald Nagler, M.D. *Director, Department of Physical Medicine and Rehabilitation*  
 Leah Eisenstein. *Supervisor of Therapy Services*

## NEW YORK MEDICAL COLLEGE

Center for Chronic Disease, Bird S. Coler Hospital, Welfare Island, New York  
 Maurycy Silber, M.D. *Chief of Clinical Services, Physical Medicine and Rehabilitation*  
 Milton C. Bailey. *Chief, Physical Therapy Section*



## Metropolitan Hospital

Catherine Hinterbuchner, M.D. *Director of Rehabilitation Medicine*Lois Klimerman. *Chief Physical Therapist*

## NEW YORK STATE REHABILITATION HOSPITAL, WEST HAVERSTRAW, N.Y.

Alice L. Garrett, M.D. *Acting Director*Luke Chu, M.D. *Chief, Physical Medicine and Rehabilitation*Bonnie Blossom. *Chief, Physical Therapy*Patricia Sullivan. *Educational Supervisor, Physical Therapy Section*

## PRESBYTERIAN HOSPITAL, NEW YORK, N.Y.

Alvin J. Binkert. *Executive Vice President and General Manager*Robert C. Darling, M.D. *Director, Clinical Rehabilitation Medicine*Judith Hogan. *Chief, Physical Therapist*

## ROOSEVELT HOSPITAL, NEW YORK, N.Y.

John L. Unterecker, M.D. *Director, Rehabilitation Medicine*(Mrs.) Nancy Rosenberger. *Chief Physical Therapist*

## ST. LUKE'S HOSPITAL CENTER, NEW YORK, N.Y.

Charles W. Davidson. *Executive Director*Shyh-Jong Yue, M.D. *Director, Department of Physical Medicine*(Mrs.) Doris Lambert. *Supervisor, Physical Therapy*

## STATE OF CONNECTICUT VETERANS HOME AND HOSPITAL, ROCKY HILL, CONN.

Herman L. Kamenetz, M.D. *Chief, Physical Medicine and Rehabilitation*Herbert Jones. *Supervisor of Physical Therapy*

## U.S. PUBLIC HEALTH SERVICE, OUTPATIENT CLINIC, NEW YORK, N.Y.

Philip L. Spencer, M.D. *Associate Director, Ambulatory Care*Florian J. Beiseigel. *Acting Chief Physical Therapist*

## VETERANS ADMINISTRATION HOSPITAL, BRONX, N.Y.

Abraham M. Kleinman, M.D. *Director*Harold J. Lindenauer, M.D. *Acting Chief, Physical Medicine and Rehabilitation Service*Morris Vogel. *Chief, Physical Therapy*

## VETERANS ADMINISTRATION HOSPITAL, BROOKLYN, N.Y.

Milton Ginsberg, M.D. *Director*L. Chen, M.D. *Chief, Physical Medicine and Rehabilitation Service*Mary Cotterill. *Chief, Physical Therapy*

## VETERANS ADMINISTRATION HOSPITAL, MONTROSE, N.Y.

Leon Rackow, M.D. *Director*Stephen J. Cenkner, M.D. *Chief, Physical Medicine and Rehabilitation Service*Roy Frank. *Chief, Physical Therapy*

## VETERANS ADMINISTRATION HOSPITAL, NEW YORK, N.Y.

John V. Sheehan. *Hospital Director*Edith Kristeller, M.D. *Chief, Physical Medicine and Rehabilitation Service*Aleks Tandyrak. *Chief, Physical Therapy*

## VISITING NURSE SERVICE OF NEW YORK, N.Y.

(Mrs.) Ione Carey. *Director, Education*Annemarie Rumpler. *Senior Physical Therapy Consultant*

## WESTCHESTER COUNTY HEALTH DEPARTMENT, WHITE PLAINS, N.Y.

Jack J. Goldman, M.D. *Commissioner of Health*Esther Schisa. *Director of Nursing*(Mrs.) Susan Popick. *Supervising Physical Therapist*

# Courses in Occupational Therapy

Occupational therapy is the art and science of directing man's response to selected activity to promote and maintain health and to prevent disability, by evaluating behavior and treating or training patients with physical or psychosocial dysfunction. Among the tools of treatment used by the occupational therapist are creative and manual arts, activities of daily living, prevocational skills, and avocational pursuits. The occupational therapist works in consultation with qualified physicians, physical therapists, psychologists, nurses, social workers, speech therapists, vocational counselors, and others. Positions are available for work with clients of all ages in hospitals, outpatient centers, rehabilitation centers, halfway houses, special schools for the exceptional child, and in patients' homes. There is an acute shortage of occupational therapists to meet the increasing demands of programs concerned with (1) prevention and health maintenance, (2) remediation, and (3) daily living tasks and vocational adjustment. Therapists are needed as clinicians, administrators, educators, and investigators.

The education of the therapist is broad, since he must be able to evaluate the client's abilities and administer programs directed toward psychological adjustment, physical restoration, and prevocational goals. The therapist must be prepared to work in consultation and cooperation with physicians and other members of allied health teams; to understand the implications of the diagnostic condition as a medical entity and its meaning to the client in terms of his life goals. He must be prepared to teach activities at a level which will stimulate and aid each client to work toward his highest level of adjustment in terms of specific and realistic life goals. He must have the knowledge and skills necessary to carry out the organization and administration of the occupational therapy clinic and the supervision of other personnel.

Two programs of basic professional education are offered at Columbia. The program leading to the degree of Bachelor of Science is designed to prepare quality clinicians. The second, leading to the degree of Master of Science, is directed toward the development of master clinicians and leaders in the field by providing an opportunity for the development of a generic foundation, followed by specialization in one area of occupational therapy practice; by development of basic concepts of administration, supervision, and education; by development of concepts and techniques in the scientific method.

The courses described in this bulletin meet the requirements set forth by the American Occupational Therapy Association and by the Council on Medical Education of the American Medical Association, as published in their *Essentials of an Accredited Curriculum in Occupational Therapy*, which regulates the standards by which schools are accredited. Graduates of both programs are eligible for the examination leading to admission to the Registry of Occupational Therapists, maintained by the American Occupational Therapy Association. This examination is

held throughout the country in January and June of each year. Admission to the registry is the certification of a therapist to practice.

## ► ADMISSION REQUIREMENTS

All applicants receive consideration for admission without regard to race, creed, color, national origin, or sex.

Students are admitted only in September. Demands made on the physical endurance and emotional stamina of the therapist require a record of good health. Applicants must be graduates of an approved high school or the equivalent. Specific requirements for admission to each of the programs are as follows:

### B.S. DEGREE PROGRAM

The completion of at least 60 semester credits (two years) of liberal arts courses with a grade of C or better, in a college approved by Columbia University. Courses must include: (a) 6 semester credits in biological science (including zoology), (b) 6 semester credits in psychology, (c) 3 semester credits in sociology and (d) 6 semester credits in English. It is recommended that students plan a well balanced education base by selecting elective courses in the humanities, languages, and communication arts; in behavioral, physical, political, and social sciences.

Transfer credit is usually not allowed either for courses in physical education or for any specific professional courses. A maximum of 12 credits is allowed for courses completed in music and in fine and industrial arts.

### M.S. DEGREE PROGRAM

An applicant must hold a baccalaureate acceptable to Columbia University. The work for the degree must include: (a) 6 semester credits in biological sciences (including zoology), (b) 6 semester credits in psychology, (c) 3 semester credits in sociology, and (d) 6 semester credits in English.

An applicant must submit results of either the Graduate Record Examination or the Miller Analogies Test.

An applicant should indicate to the satisfaction of the faculty a familiarity with, and adequate knowledge of, at least three creative or manual arts, and/or vocational or avocational skills.

### ADMISSION PROCEDURE

Forms to be used in applying for admission may be obtained by writing to the Occupational Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032. Applications should be filed several months in advance of the time the student wishes to begin his studies. The completed forms must be accompanied by the application fee (see page 37). The fee is not returnable and is not credited toward tuition.

Transcripts of all post-secondary school education should be forwarded by the registrars of the respective schools directly to the Director of Courses in Occupational Therapy. A personal interview will be arranged for each applicant.



## FOREIGN STUDENTS

Students from other countries are urged to apply for admission several months in advance of the time they wish to begin their studies. Application must be made on the form provided by the Occupational Therapy Office. The applicant must fulfill the usual admission requirements, as all students are considered for admission on the same basis.

A personal interview is required of all applicants, when feasible. If the applicant does not plan to be in this country until after action has been taken on his application, the College will try to arrange for an interview with a therapist or physician in the home country.

At the time application is filed, records must be submitted of all college or university education completed. These will be evaluated to determine the equivalency of the applicant's educational background in terms of admission requirements.

Information about foreign-student clubs at Columbia and about opportunities to attend conferences, travel in the United States, and participate in community and cultural activities, as well as maps of New York City and discount tickets to concerts and plays may be obtained in Room 106, Foreign Student Center, on the Morningside campus. Earl Hall Center, on the main campus, acts as a forum for the development of religious and other programs, and houses many foreign-student clubs. The Intercultural Program Office (telephone 280-3581), 302 Earl Hall, arranges for foreign students to visit American families, observe or participate in intercultural seminars and weekend communications workshops. Information may also be obtained from this office about the weekly international luncheons held in the Dodge Room of Earl Hall.

## ► DEGREE REQUIREMENTS

1. Continuous registration is expected until satisfactory completion of all requirements. *Leave of absence:* a student who must interrupt his studies for adequate reason—such as sustained ill health or military service—may be granted a leave of absence for a stated period, usually not to exceed one year. He should apply in writing to the Director of Courses in Occupational Therapy and include in his application the specific reason for requiring the leave and the length of time requested.

2. Minimum course requirements in areas of basic competency must be completed by candidates for either degree: biological sciences, behavioral sciences, medical conditions, therapeutic activities, and occupational therapy evaluation and treatment procedures.

3. Full-time (or the equivalent) supervised field experience in institutions for patient care. (See specific degree requirements below.) All clinical requirements should be completed within twelve months but must be completed within twenty-four months following completion of academic work.

Specific requirements for each of the degrees are as follows:

### BACHELOR OF SCIENCE DEGREE

1. Two years of full-time approved course work in residence, including areas of competency outlined above.

2. Demonstrated competency in English composition.
3. Thirty-two weeks of full-time supervised field experience with clients in programs of prevention, maintenance, and treatment.

#### MASTER OF SCIENCE DEGREE

1. A minimum of 60 points of approved work of which 30 must be at graduate level. *Advanced standing*: a candidate who has completed basic professional education at an accredited school of occupational therapy may receive 30 points of credit toward the degree. Additional points of credit may be granted to recent recipients of the Columbia University Certificate in Occupational Therapy, the amount to be determined by the faculty.

2. Minimum course requirements must be completed in the following additional areas of competency: principles of administration; principles of supervision, guidance, or education; scientific method; an area of specialization.

3. A minimum of thirty-two weeks of full-time (or the equivalent) supervised field experience with clients in programs of prevention, maintenance, and treatment.

4. An independent project.

# Programs of Study

The University reserves the right to withdraw or modify the courses of instruction or to change the instructors as may be necessary.

## ► B.S. DEGREE PROGRAM

This program includes two academic years (sixteen months) of theoretical and technical study on the campus and eight months of clinical education in affiliated institutions of patient care. The utilization of summer periods for hospital experience enables the student to complete the full program in approximately two calendar years. The clinical education consists of full-time practical experience under the immediate supervision of registered occupational therapists in psychiatric, orthopedic, neurological, general medical, and surgical services, hospitals, or community health centers. During the clinical education periods students also attend lectures, clinics, and staff meetings; they are introduced to related treatment departments and conduct case studies. Clinical education should be completed within 12 months, but *must* be completed within 24 months after the academic work is completed.

The program is summarized in outline form on page 29. See page 7 for Key to Course Listings.

(Asterisks indicate courses included in the first year of study for the M.S. degree.)

### JUNIOR YEAR: AUTUMN TERM

#### \*H.P. 3101x. Human anatomy

Professor Solimene and associates. 3 points.

Anatomy of the human body, with emphasis on those features which are most important for muscular activity. Instruction is given by means of lectures and laboratory work, the latter based on prepared dissection of the human body.

#### \*H.P. 3103x. Anatomy of the nervous system

Professor Noback. 2 points.

The anatomy of the nervous system of man, including the structural unit, the cerebrospinal system, and the autonomic system. Attention is given to the gross divisions of the brain, spinal cord, and peripheral nerves, with particular emphasis on the controls affecting voluntary motion.

#### O.T. 3210x. Developmental theories and task analysis

Miss Presseller (in charge), and Mmes. Gillette and Shelly. 6 points.

Concepts of human development as they relate to basic theories of occupational therapy. Exploration of the developmental tasks of adolescence, adulthood, and aging, with emphasis on vocational and leisure aspects. A concurrent laboratory permits experience with activities which assist in the mastery of developmental tasks, such as copper enameling, silk screening, weaving, and group socialization processes. Field work assignments provide critical incidents for classroom discussion.

**\*O.T. 3434x. Therapeutic activities: woodworking and mechanical drawing**

Dr. Lisenco. 2 points.

The fundamental principles of mechanical drawing and woodworking with hand and machine tools.

**O.T. 3551x. Professional concepts**

Miss Presseller and faculty. 2 points.

Identification of components of occupational therapy in health care and human services. Historical analysis and scope of present professional concerns. Supervised clinical visits, films, group discussions.

**JUNIOR YEAR: SPRING TERM****O.T. 3211y. Developmental theories and task analysis**

Mrs. Gillette (in charge) and Professors Deutsch and Diasio. 6 points.

A continuation of *O.T. 3210*, with emphasis on infancy through pre-adolescence. Activities include pottery, needlecrafts, and leathercraft.

**\*O.T. 3212y. Group process**

Mr. Brook. 2 points.

Prerequisite: general psychology and sociology.

A lecture-laboratory course designed to familiarize the student with the basic principles underlying group process and behavior, and the clinical application of these principles in occupational therapy, through each individual's participation in the group.

**\*O.T. 4320y. Psychopathology**

Dr. Firestein and Mrs. Gillette. 2 points.

Aspects of mental health, mental illness, and the emotional manifestations of physical illness, as related to the practice of occupational therapy. Concepts of developmental psychiatry, psychopathology, and various treatment methodologies are explored through patient interviews and class discussions.

**\*H.P. 4325y. Neurological conditions**

Instructor to be announced. 2 points.

Etiology, symptomatology, and treatment of diseases of the brain, spinal cord, and peripheral nerves.

**O.T. 3556y. Developmental evaluation and treatment**

Miss Presseller. 4 points.

Current theories and methods used in treating children who have delayed development due to either dysfunction or deprivation. Specific evaluative treatment procedures including play and perceptual-motor modalities. A lecture-laboratory course with clerkship.

**SENIOR YEAR: AUTUMN TERM****\*H.P. 3105x. Human physiology**

Professor Emmers and associates. 3 points.

A comprehensive discussion of the major organ systems of the human body, with emphasis on neurophysiology and the physiology of exercise. Assigned readings and selected demonstrations.

**O.T. 4107x. Applied anatomy and kinesiology**

Mrs. Caramintzou. 2 points.

Application of knowledge of gross anatomy of skeletal and muscular systems to mechanics of bodily movement. Analysis of skills and activities used in occupational therapy. Lectures and laboratory.

**\*H.P. 4323x. Medical and surgical conditions**

Professors Downey (medicine) and Bertsch (surgery). 2 points.

*Medical conditions:* a survey of medicine, with emphasis on medical conditions commonly seen by therapists. Lectures deal primarily with the relationship of pathological physiology to the development of signs and symptoms of disease. *Surgical conditions:* a survey of those common diseases for which surgical treatment is emphasized, including the underlying anatomy, pathology, and biochemistry.



**O.T. 3553x. Principles of evaluation and treatment of psychosocial dysfunction**

Mrs. Gillette. 6 points.

Current theories of psychiatric occupational therapy considered in terms of therapeutic intervention in psychosocial dysfunction. Evaluation and identification of psychopathology; goal-setting and treatment-planning; application of treatment through therapeutic use of self, group, and activity. Clerkship assignments in occupational therapy departments.

**H.P. 4560x. Health administration: fundamentals, principles, and concepts**

Mr. Stone. 2 points.

The principles of organization and management; the contributions of community and professional interests in health planning and delivery; the functions, structure, goals, and economies of various types of health care institutions and agencies; the rights, responsibilities, and accountability within the employer-employee-consumer triad; the role of the administrator of a service department (occupational therapy and physical therapy) within the system.

**SENIOR YEAR: SPRING TERM****\*H.P. 4327y. Orthopedic conditions**

Professor Andrews. 2 points.

Lectures and clinical presentations, including discussion of related problems—social, medical, surgical—and rehabilitation.

**O.T. 3444y. Therapeutic activities: activities of daily living and orthotics**

Mrs. Goldberg. 3 points.

A laboratory course on some of the materials, equipment, and techniques to aid the handicapped in attaining maximum self-sufficiency in the activities of daily living. The needs of persons with motor, sensory, and emotional handicaps. Energy conservation techniques for cardiac and tuberculous patients. Experience in making functional splints and adapted equipment suitable for the physically disabled.

**O.T. 3448y. Prevocational evaluation**

Miss Lane. 2 points.

The role of occupational therapy in exploring and evaluating employment potentials of the handicapped. Analysis of jobs into component tasks and their physical and mental demands. The work sample technique as a tool of prevocational and vocational rehabilitation, dexterity tests, and other tools. The role of other disciplines and agencies.

**O.T. 3558y. Occupational therapy in special fields**

Miss Presseller. 2 points.

Exploration of the role of occupational therapy in a variety of settings with special emphasis on community programs. Designed to enrich each student's background in accordance with his individual needs.

**O.T. 3563y. Principles of evaluation and treatment of physical dysfunction**

Professor Darling, Miss Neuhaus, and associates. 4 points.

Physiology of exercise provides a basis for lectures and laboratory experience in evaluation and treatment of physical dysfunction. Methods of evaluating loss of function; activity analysis and treatment planning for deficits in strength, motion, coordination, endurance; prosthetic evaluation. Clerkship experience as simultaneous practicum for lecture content.

**Electives in skills (2 or more points).****► M.S. DEGREE PROGRAM**

The average student can expect to complete this program in twenty-two calendar months of full-time effort in classroom work, clinical experience, and independent study.

The first year of study includes a common core of courses referable to both the physical and psychiatric areas of occupational therapy practice. During the year the student selects one of these areas for major concentration in later studies.

In the summer months between the first and second years, the student carries out a three-month full-time clinical assignment in the area of practice *not* chosen for specialization.

The second year of study is directed toward the clinical area chosen for specialization. Course work in the autumn term is concerned with an in-depth exploration of methods of evaluation and treatment in the area of specialization, as well as principles of administration, supervision, and research methodology. The spring term is devoted to clinical education and the development of an independent project.

When feasible, the independent project selected by the student should be planned during the autumn of the second year in connection with the research course. This should be carried out during the spring term.

Following the second year a clinical assignment of two months is directed toward the enrichment of the student's background in accordance with his individual needs and desires.

Course requirements and their sequence are outlined on page 29. Courses included in the first year of study are indicated by an asterisk preceding the course in the B.S. program listings above. Additional courses for the M.S. program are listed below. For electives and substitutions, students should consult the bulletins of Teachers College and the Graduate School of Arts and Sciences.

#### FIRST YEAR: AUTUMN TERM

##### **O.T. 4210x. Developmental theories and task analysis**

Mrs. Gillette (in charge), Miss Presseller, and Mrs. Shelly. 5 points.

Concepts of human development as they relate to basic theories of occupational therapy. Exploration of the developmental tasks of adolescence, adulthood, and aging with emphasis on vocational and leisure aspects. A concurrent laboratory permits experience with activities which assist in mastery of developmental tasks such as copper enameling, silk screening, weaving, and group socialization processes. Field work assignments provide critical incidents for classroom discussion.

##### **O.T. 4551x. Professional concepts**

Miss Presseller and faculty. 1 point.

Identification of components of occupational therapy in health care and human services. Historical analysis and scope of present professional concerns. Supervised clinical visits, films, group discussions.

#### FIRST YEAR: SPRING TERM

##### **O.T. 4107y. Applied anatomy and kinesiology**

Mrs. Caramintzou. 2 points.

Application of knowledge of gross anatomy of skeletal and muscular systems to mechanics of bodily movement. Analysis of skills and activities used in occupational therapy. Lectures and laboratory.

##### **O.T. 4211y. Developmental theories and task analysis**

Miss Presseller (in charge), Professor Deutsch, and Mrs. Gillette. 5 points.

A continuation of *O.T. 4210*, with emphasis on infancy through pre-adolescence. Activities include pottery, needlecrafts, and leathercraft. The developmental deficits of each developmental stage are discussed, with an introduction to evaluation and treatment.

**O.T. 4444y. Therapeutic activities: activities of daily living and orthotics**

Mrs. Shelly. 1 point.

A laboratory course on some of the materials, equipment, and techniques to aid the handicapped in attaining maximum self-sufficiency in the activities of daily living. Experience in making splints and adapted equipment suitable for the physically disabled.

**O.T. 4553y. Principles of evaluation and treatment of psychosocial dysfunction**

Professor Diasio and associates. 4 points.

For students who are not majors in psychosocial dysfunction. Clerkship experiences. For description see *O.T. 3553*, on page 25.

**O.T. 4563y. Principles of evaluation and treatment of physical dysfunction**

Professor Darling, Miss Neuhaus, and associates. 4 points.

For students who are not majors in physical dysfunction. Clerkship experiences. For description see *O.T. 3563*, on page 25.

**SUMMER TERM****O.T. 4663s. Practicum I: evaluation and treatment of patients with physical dysfunction**

The faculty and clinical supervisors. 3 points.

For students who are not majors in physical dysfunction.

Prerequisite: *O.T. 4563* and all other 3000- and 4000-level courses upon which this area of practice is based, or their equivalents.

Supervised clinical experience with patients, applying evaluative techniques, interpreting findings, planning and implementing treatment, and reporting results.

**O.T. 4673s. Practicum IA: evaluation and treatment of patients with psychosocial dysfunction**

The faculty and clinical supervisors. 3 points.

For students who are not majors in psychosocial dysfunction.

Prerequisite: *O.T. 4553* and all other 3000- and 4000-level courses upon which this area of practice is based or their equivalents. Supervised clinical experience with patients, applying evaluative techniques, interpreting findings, planning and implementing treatment, and reporting results.

Full time for three months in clinic.

**SECOND-YEAR: AUTUMN TERM****O.T. 4218x. Supervision: concepts and application**

Mrs. Fidler. 3 points.

The goals, methods, techniques, and process; the responsibilities of the supervisor and supervisee; the relationship of learning theories; the techniques of counseling and appraisal.

**H.P. 4560x. Health administration: fundamentals, principles, and concepts**

Mr. Stone. 2 points.

The principles of organization and management; the contributions of community and professional interests in health planning and delivery; the functions, structure, goals, and economies of various types of health care institutions and agencies; the rights, responsibilities, and accountability within the employer-employee-consumer triad; the role of the administrator of a service department (occupational therapy and physical therapy) within the system.

**O.T. 6565x. Principles of occupational therapy in physical dysfunction**

Miss Neuhaus, Mrs. Shelly, and associates. 8 points.

For majors in physical dysfunction.

Analysis and synthesis of the evaluative and treatment processes used for all age groups. Theories of exercise, activity analysis, and psychodynamics of adjustment to disability. Experience with the modalities needed for learning adaptive skills—self-care, vocational, and avocational—for resuming work-play functions. Clerkship and laboratory experience.



**O.T. 6575x. Principles of occupational therapy in psychosocial dysfunction**

Professor Diasio and associates. 8 points.

For majors in psychosocial dysfunction.

In-depth analysis of theories and concepts of evaluation and intervention. Components of the occupational therapy process, including evaluative tools, use of the enabling relationship, activity programming, environmental structuring. Emerging roles and trends in the profession. Clerkship and laboratory experience.

*O.T. 6561—Independent project* (see below) is required in the spring term of the second year. However, students may choose to take this course for the entire year by also registering for it in the autumn term, for elective credit.

**SECOND YEAR: SPRING TERM****O.T. 6561y. Independent project**

Major adviser. 3 points.

This course is required in the spring term of the second year, but may be taken for elective credit in the autumn term as well.

Open as an elective to students in the B.S. program in their senior year.

A minimum of 15 hours of work is required for each point of credit.

In consultation with his major adviser the student identifies, designs, and carries out a study on an approved topic related to occupational therapy.

**O.T. 6666y. Practicum II: physical dysfunction**

The faculty and clinical supervisors. 3 points.

Prerequisite: *O.T. 6565* and all 3000- and 4000-level courses upon which this area of practice is based or their equivalents.

Supervised clinical practice four days weekly (28 hours equivalent) for the term. Concurrent development of student's independent project.

**O.T. 6676y. Practicum IIA: psychosocial dysfunction**

The faculty and clinical supervisors. 3 points.

Prerequisite: *O.T. 6575* and all 3000- and 4000-level courses upon which this area of practice is based or their equivalents.

Supervised clinical practice four days weekly (28 hours equivalent) for the term. Concurrent development of student's independent project.

**SUMMER TERM****O.T. 6680s. Practicum III**

The faculty and clinical supervisors. 2 points.

Required of all M.S. degree candidates.

Prerequisite: completion of all course work and Practicums I and II.

A clinical experience is individually planned to enrich the student's background in accordance with his needs and desires. Special opportunities are provided to work with different age groups in specialty institutions such as nursing homes, pediatric centers, general hospitals; to work with diagnostic groups such as general medical-surgical patients, the mentally retarded, drug addicts, delinquents; to assist with administration, supervision, or research.

**► POSTGRADUATE COURSE****O.T. 6218. Concepts of supervision related to occupational therapy practices in psychiatry**

Mrs. Fidler and associates. Dates to be announced. 2 points.

Minimum class, ten; maximum class, fifteen.

Open to registered occupational therapists with working experience.

Prerequisite: the instructor's permission.

This course is planned to meet the needs of occupational therapists who supervise students and staff. Emphasis is on practice in psychiatric clinical settings, but a limited number of practitioners from other clinical areas are admitted.

Further information and application forms are available from Occupational Therapy Courses, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032.

# Outline of the Programs

## B.S. DEGREE PROGRAM

JUNIOR YEAR: AUTUMN TERM	POINTS
H.P. 3101: Human anatomy	3
H.P. 3103: The nervous system	2
O.T. 3210: Developmental theories	6
O.T. 3434: Therapeutic activities	2
O.T. 3551: Professional concepts	2

Total points 15

SENIOR YEAR: AUTUMN TERM	POINTS
H.P. 3105: Human physiology	3
O.T. 4107: Kinesiology	2
H.P. 4323: Medical and surgical conditions	2
O.T. 3553: Treatment of psychosocial dysfunction	6
H.P. 4560: Health administration	2
Electives	0-3

Total points 15-18

JUNIOR YEAR: SPRING TERM	POINTS
O.T. 3211: Developmental theories	6
O.T. 3212: Group process	2
O.T. 4320: Psychopathology	2
H.P. 4325: Neurological conditions	2
O.T. 3556: Developmental evaluation and treatment	4

Total points 16

SENIOR YEAR: SPRING TERM	POINTS
H.P. 4327: Orthopedic conditions	2
O.T. 3444: Therapeutic activities	3
O.T. 3448: Prevocational evaluation	2
O.T. 3558: O.T. in special fields	2
O.T. 3563: Treatment of physical dysfunction	4
Electives in skills	2
Electives	0-3

Total points 15-18

CLINICAL EDUCATION IN COMMUNITY HEALTH: two months in the summer between junior and senior years.

CLINICAL EDUCATION IN PHYSICAL AND PSYCHOSOCIAL DYSFUNCTION: six months following the senior year.

## M.S. DEGREE PROGRAM

FIRST YEAR: AUTUMN TERM	POINTS
H.P. 3101: Human anatomy	3
H.P. 3103: The nervous system	2
H.P. 3105: Human physiology	3
O.T. 4210: Developmental theories	5
H.P. 4323: Medical and surgical conditions	2
O.T. 3434: Therapeutic activities	2
O.T. 4551: Professional concepts	1

Total points 18

SECOND YEAR: AUTUMN TERM	POINTS
O.T. 4218: Supervision	3
H.P. 4560: Health administration	2
O.T. 6565: Treatment of physical dysfunction (8) or	
O.T. 6575: Treatment of psychosocial dysfunction (8)	8
T.I. 3830: Methods of research	3
Electives	0-3

Total points 16-19

FIRST YEAR: SPRING TERM	POINTS
O.T. 4107: Kinesiology	2
O.T. 4211: Developmental theories	5
O.T. 3212: Group process	2
O.T. 4320: Psychopathology	2
H.P. 4325: Neurological conditions	2
H.P. 4327: Orthopedic conditions	2
O.T. 4444: Therapeutic activities	1
O.T. 4553: Treatment of psychosocial dysfunction (4) or	
O.T. 4563: Treatment of physical dysfunction (4)	4

Total points 20

SECOND YEAR: SPRING TERM	POINTS
O.T. 6561: Independent project	3
O.T. 6666: Practicum II (3) or	
O.T. 6676: Practicum IIA (3)	3
Electives	0-4

Total points 6-10

PRACTICUM (3 points): three months during the summer term following the first year.

PRACTICUM (2 points): two months during the summer term following the second year.

# Hospitals and Agencies Affiliated for Clinical Education

## A. HARRY MOORE SCHOOL, JERSEY CITY, N.J.

Agnes V. Thompson, D.Litt. *Director*

Daniel J. O'Regan, M.D. *Medical Director*

(Mrs.) Dorothy Brinning, O.T.R. *Chief Occupational Therapist*

## BELLEVUE HOSPITAL MEDICAL CENTER, NEW YORK, N.Y.

Bernard Weinstein. *Executive Director*

Bruce Grynbaum, M.D. *Director of Physical Medicine and Rehabilitation*

(Mrs.) Frances Corey, O.T.R. *Supervisor of Occupational Therapy, Rehabilitation*

## BLYTHEDALE CHILDREN'S HOSPITAL, VALHALLA, N.Y.

Robert Stone. *Administrator*

Niels L. Low, M.D. *Clinical Director*

Yasoma B. Challenor, M.D. *Chief, Rehabilitation Medicine*

(Mrs.) Adele Kapp, O.T.R. *Chief Occupational Therapist*

## BRONX MUNICIPAL HOSPITAL CENTER, JACOBI HOSPITAL, BRONX, N.Y.

Mr. Leonard Piccoli. *Director*

Arthur Abramson, M.D. *Chairman, Department of Rehabilitation Medicine*

(Mrs.) Elaine Nastvogel, O.T.R. *Chief of Rehabilitation Occupational Therapy*

## CHILDREN'S SPECIALIZED HOSPITAL, WESTFIELD-MOUNTAINSIDE, N.J.

E. Milton Staub, M.D. *Director*

Mary Ellen de Lude, O.T.R. *Director, Occupational Therapy*

## DISTRICT OF COLUMBIA, GENERAL HOSPITAL, WASHINGTON, D.C.

Lawrence A. Dunmore, M.D., M.P.H. *Executive Director*

(Mrs.) I. R. Achter, O.T.R. *Coordinator, Physical Medicine and Rehabilitation*

B. Joan Bellman, O.T.R. *Chief Occupational Therapist*

## HARLEM HOSPITAL CENTER, NEW YORK, N.Y.

Haynes Rice. *Acting Executive Director*

Albert D. Anderson, M.D. *Professor of Rehabilitation Medicine*

Margaret A. Brown, O.T.R. *Chief Occupational Therapist*

## I.C.D. REHABILITATION AND RESEARCH CENTER, NEW YORK, N.Y.

Salvatore Di Michael, Ph.D. *Director*

Lawrence Friedman, M.D. *Medical Director*

Ann Lane, O.T.R. *Chief Occupational Therapist*

## INSTITUTE OF REHABILITATION MEDICINE, NEW YORK UNIVERSITY

MEDICAL CENTER, NEW YORK, N.Y.

Howard A. Rusk, M.D. *Director*

Donald Covalt, M.D. *Medical Director*

(Mrs.) Sophia Chiotelis, O.T.R. *Director of Occupational Therapy*

## KESSLER INSTITUTE FOR REHABILITATION, WEST ORANGE, N.J.

Mr. William Page. *Executive Director*

Richard Sullivan, M.D. *Medical Director*

(Mrs.) Felice Celikyol, O.T.R. *Director, Occupational Therapy*

(Mrs.) Sandra Fornuff, O.T.R. *Assistant Director of Student Program*

## KINGS COUNTY HOSPITAL MEDICAL CENTER, BROOKLYN, N.Y.

Gordon Derzon. *Administrator*

Joseph G. Benton, M.D. *Medical Director*

Betty Ann Coron, O.T.R. *Chief Occupational Therapist*

## KINGSBROOK JEWISH MEDICAL CENTER, BROOKLYN, N.Y.

Solomon L. Seigel. *Director*

Henry Rosner, M.D. *Acting Director*

Pauline P. Tan, O.T.R. *Chief Occupational Therapist*

LONG ISLAND COLLEGE HOSPITAL, CHILDREN'S CENTER  
FOR DEVELOPMENTAL DISORDERS, BROOKLYN, N.Y.

W. I. Klein. *Director*

S. Lamm, M.D. *Medical Director*

(Mrs.) Chong-In Yuin, O.T.R. *Chief Occupational Therapist*

## LONG ISLAND JEWISH—HILLSIDE MEDICAL CENTER

Charles J. Rabiner, M.D. *Director, Psychiatric Division*

Philip Petrolino, O.T.R. *Director, Activities Therapy Department*

Simme Cynkin, O.T.R. *Supervisor, Clinical Training and Education*

LUBIN REHABILITATION CENTER, HOSPITAL OF ALBERT  
EINSTEIN COLLEGE OF MEDICINE, BRONX, N.Y.

Arthur Ricklin. *Administrator*

Samuel Levine, M.D. *Director of Rehabilitation Medicine*

(Mrs.) Ann C. Goldberg, O.T.R. *Chief Occupational Therapist*

## METROPOLITAN HOSPITAL, NEW YORK MEDICAL COLLEGE, NEW YORK, N.Y.

A. Constantine. *Executive Director*

Catherine Hinterbuchner, M.D. *Professor and Chairman of Rehabilitation Medicine,  
Chief of Service*

Judith Wasserman, O.T.R. *Chief Occupational Therapist*

## MONTEFIORE HOSPITAL AND MEDICAL CENTER, NEW YORK, N.Y.

Martin Cherkasky, M.D. *Director*

Seymour Bluestone, M.D. *Acting Chief, Division of Rehabilitation Medicine*

Ruth English, O.T.R. *Director of Occupational Therapy*

## MOUNT SINAI HOSPITAL, NEW YORK, N.Y.

S. David Pomrinse, M.D. *Director*

Lawrence H. Wisham, M.D. *Chief of Rehabilitation Medicine*

(Mrs.) Iryne Patt, O.T.R. *Chief Occupational Therapist*

Marvin Stein, M.D. *Chairman, Department of Psychiatry*

## NEWINGTON CHILDREN'S HOSPITAL, NEWINGTON, CONN.

Burr H. Curtis. *Medical and Executive Director*

John C. Allen, M.D. *Physiatrist*

Mary Fiorentino, O.T.R. *Director of Occupational Therapy*



## NEW YORK HOSPITAL, NEW YORK, N.Y.

D. Thompson, M.D. *Medical Director*  
 W. Nagler, M.D. *Medical Director of Occupational Therapy*  
 Joan Cavanaugh, O.T.R. *Chief Occupational Therapist, Physical Medicine*

Payne Whitney Psychiatric Clinic  
 William Lhamon, M.D. *Director*  
 (Mrs.) Margaret Johanson, O.T.R. *Chief Occupational Therapist*

## NEW YORK MEDICAL COLLEGE—CENTER FOR CHRONIC DISEASE, BIRD S. COLER HOSPITAL, WELFARE ISLAND, N.Y.

Theodore D. Perkins. *Acting Executive Director*  
 Maurycy Silber, M.D. *Director, Department of Rehabilitation Medicine*  
 (Mrs.) Patricia Gilchrist, O.T.R. *Chief, Occupational Therapy Section*

## NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE

Allen D. Miller, M.D. *Commissioner*

Bronx State Hospital, Bronx, N.Y.  
 Israel Zwerling, M.D. *Director*  
 (Mrs.) Margaret Rerek. *Chief Occupational Therapist*

Creedmoor State Hospital, Queens Village, N.Y.  
 William L. Werner, M.D. *Director*  
 Eileen Schmitz, O.T.R. *Director of Rehabilitation*  
 Alice Silva, O.T.R. *Director of Occupational Therapy Student Training*

New York State Psychiatric Institute, New York, N.Y.  
 Lawrence C. Kolb, M.D. *Director*  
 (Mrs.) Alice R. Trei, O.T.R. *Senior Occupational Therapist*  
 (Mrs.) Karen Diasio, O.T.R. *Director of Professional Education*

## NEW YORK STATE REHABILITATION HOSPITAL, WEST HAVERSTRAW, N.Y.

Alice Garrett, M.D. *Director*  
 (Mrs.) Iselyne Maughan Hennessey, O.T.R. *Director of Cerebral Palsy Department and Neuromuscular Screening Clinic*  
 (Mrs.) Joline Junghans, O.T.R. *Supervisor of Occupational Therapy*

## OVERLOOK HOSPITAL, SUMMITT, N.J.

Robert Heinlein. *Director*  
 Norman Schactel, M.D. *Medical Director of Occupational Therapy*  
 Mrs. Gloria Hershman, O.T.R. *Chief Occupational Therapist*

## PRESBYTERIAN MEDICAL CENTER HOSPITALS, NEW YORK, N.Y.

Alvin T. Binkert. *Executive Vice President*  
 Robert C. Darling, M.D. *Director, Rehabilitation Medicine*  
 (Mrs.) Eleanor Shelly, O.T.R. *Chief Occupational Therapist*

## ST. ELIZABETH HOSPITAL, WASHINGTON, D.C.

Luther D. Robinson, M.D. *Acting Superintendent*  
 Clara Hoyer, M.D. *Acting Assistant Superintendent*  
 (Mrs.) Rosabelle B. French, O.T.R. *Chief Occupational Therapist*  
 (Mrs.) Nancy G. Adams, O.T.R. *Clinical Training Supervisor*

## ST. LUKE'S HOSPITAL CENTER, NEW YORK, N.Y.

Charles W. Davidson. *Executive Director*  
 John Cotton, M.D. *Director, Department of Psychiatry*  
 Linda Silber, O.T.R. *Director, Occupational and Recreational Therapy Services*

ST. VINCENT'S COMMUNITY MENTAL HEALTH CENTER, JACOB L. REISS MENTAL HEALTH  
PAVILION, NEW YORK, N.Y.

Harvey J. Tompkins, M.D. *Director of Psychiatry*

Robert J. Campbell, M.D. *Associate Director of Psychiatry and Director of Mental  
Health*

Jenifer Thuell, O.T.R. *Coordinator of Occupational Therapy Services*

VETERANS ADMINISTRATION HOSPITALS

Bronx, New York

Harold Jaffrey. *Hospital Director*

Harold J. Lindenauer, M.D. *Acting Chief, Physical Medicine and Rehabilitation  
Service*

Cecilia Sattely, O.T.R. *Chief, Occupational Therapy*

New York, N.Y.

Peter Baglio. *Hospital Director*

Edith L. Kristeller, M.D. *Chief, Physical Medicine and Rehabilitation Service*

(Mrs.) Lillian D. Bennett, O.T.R. *Chief, Occupational Therapy*

Northport, L.I., N.Y.

S. P. LaCerva, M.D. *Director*

S. T. Deniz, M.D. *Acting Chief, Physical Medicine and Rehabilitation Service*

(Mrs.) Gloria Sandelin, O.T.R. *Chief, Occupational Therapy*

WERNERSVILLE STATE HOSPITAL, WERNERSVILLE, PA.

Dr. Wilbur Lutz. *Director*

(Mrs.) Mary Teeter, O.T.R. *Chief, Occupational Therapist*

# Registration and Expenses

## ► REGISTRATION

Before attending University courses, each student must register in person during the registration period (see the Academic Calendar, on page 43). The registration procedure is as follows:

1. The student reports to the Office of Physical and Occupational Therapy at the College of Physicians and Surgeons, 630 West 168th Street, and fills out various forms giving information required for University records.
2. He has his program approved by the Director.
3. He takes his completed forms to the Office of the Registrar and pays his fees in the Office of the Bursar.

The Office of the Registrar is open Monday through Friday, 9 a.m. to 5 p.m.

All students are asked to give Social Security numbers when registering in the University. Those who do not now have a number should obtain one from their local Social Security Office well in advance of registration.

## ENGLISH LANGUAGE PLACEMENT TEST

Students whose first language is not English must take the English Language Placement Test before they register for courses. Performance on this examination determines whether or not further training in the language is needed. Students who do not meet the standards of the University may be required to follow a program of English before beginning professional courses or, if time permits, in conjunction with professional courses. No point credit is given for these courses, and their addition to the program of study lengthens the time necessary to earn the degree.

An appointment to take this test may be made in person at the Office of the American Language Program, 211 Lewisohn Hall, on the main campus at 116th Street and Broadway. To obtain the test results, the student should consult the adviser for the English for Foreign Students program, 211 Lewisohn Hall.

## ► AUDITING COURSES

Degree candidates who are enrolled for 15 points or more in the current term may audit one or two courses in any division of the University without charge. Application is made at the Registrar's Office during the change-of-program period in each term: Thursday, September 6, through Friday, September 14, for the autumn term; Monday, January 21, through Wednesday, January 30, for the spring term.



Applications require (a) the certification of the Registrar that the student is eligible to audit, and (b) the approval of the dean of the school in which the courses are offered. For approval to audit Graduate School of Arts and Sciences courses, consult the Graduate School division in the Registrar's Office, 208 Philosophy Hall, on the main campus.

For obvious reasons, elementary language courses, laboratory courses, and seminars will not be open to auditors. Other courses may be closed because of space limitations. In no case will an audited course appear on the student's record, nor is it possible to turn an audited course into a credit course by paying the fee after the fact.

## ► REGULATIONS

Each person whose registration has been completed will be considered a student of the University during the term for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

The privileges of the University are not available to any student until he has completed his registration. Since, under the University statutes, payment of fees is part of registration, no student's registration is complete until his fees have been paid. No student is permitted to attend any University course for which he is not officially registered unless he has been granted auditing privileges. No student may register after the stated period unless he obtains the written consent of the proper dean or director.

### ATTENDANCE AND LENGTH OF RESIDENCE

No degree or certificate will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

Students are held accountable for absences incurred owing to late enrollment and are expected to attend punctually each class or laboratory exercise in each course. For credit toward the certificate or degree, regular attendance is required in addition to the proficiency attested by classwork and examination.

Any student whose religious duties conflict at any time with academic requirements should apply to his Director for an equitable solution. It is the policy of the University to respect its members' observance of major religious holidays. Those responsible for the scheduling of the required academic activities or essential services have been asked to avoid conflict with such holidays as much as possible. Such activities include examinations, registration, and various deadlines that are a part of the academic calendar.

Where scheduling conflicts prove unavoidable, no student will be penalized for absence due to religious reasons, and alternative means will be sought for satisfying

the academic requirements involved. If a suitable arrangement cannot be worked out between the parties concerned, students and instructors should consult a religious counselor or the office of the appropriate dean or director.

A student in good standing may, for a valid reason, be granted a leave of absence by the Director.

#### ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University.

#### ► GRADES AND CREDIT

The student's performance in a course is reported according to the following grades: A, excellent; B, good; C, fair; and F, failure. A, B, and C are passing grades counting for credit toward the degree or certificate and accepted as the basis for advancement to a higher course. A student who does not receive a mark of C or above in a prescribed course must repeat that course.

The mark MU is not a grade and simply implies that in the opinion of the instructor the student may be given the privilege of taking a special examination. When this mark is given at the end of the autumn term, it does not necessarily mean that the student may not pursue his courses in the spring term, but that he will get no credit for the course in question until he has received a definite passing grade.

The mark of INC (incomplete) is given only to a student who has satisfactorily met all the requirements of a course but who has been compelled for reasons beyond his control to postpone certain assigned papers or reports.

Students who are absent from final examinations without excuse will receive an F in the course. Permission to be absent may be granted by the Director only in the event of illness or some other emergency. Excused students must take a special examination as soon as arrangements can be made.

#### ► FEES

Tuition is payable each term in advance and as part of registration; the student health and hospital fee for the academic year is payable at registration in September. If these fees are paid after the last day of registration (see the Academic Calendar), they will not be reduced, and a late fee of \$10 will be imposed.

The following fees, prescribed by statute *for each autumn and spring term*, are subject to change at the discretion of the Trustees:

Tuition for all courses, per point, except where a special fee is fixed	\$ 98.00
With the proviso that the fee for a program of 15 or more points is	1,465.00
Clinical fee	12.00
Student health and hospital fee (see below)	98.00

**APPLICATION FEES AND LATE FEES**

Application for admission	\$ 20.00
Application for each special examination	10.00
Renewal of application for a degree or certificate (see below)	1.00
Late registration	10.00
Late application, or late renewal of application, for a degree or certificate	10.00

**ACCEPTANCE FEE**

Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Director that he intends to matriculate and must accompany his letter with a check or money order for \$50, payable to Columbia University. This acceptance fee will be retained by the University, and if the applicant does not register for the following academic year, it will not be returned unless the University for any reason cancels the acceptance. If he registers in the courses in physical or occupational therapy in the class to which he has been admitted, the amount of the acceptance fee will be deducted from his tuition.

**WITHDRAWAL AND REBATES**

A student in good academic standing who is not subject to discipline will always be given an honorable discharge if he wishes to withdraw from the University. If he is under twenty-one years of age, his parent or guardian must first give consent in writing to the Director.

Any adjustment of the tuition that the student has paid is reckoned from the date on which the Registrar receives the student's written notification. The student health and hospital fee, application fees, late fees, and special fees are not subject to rebate. Up to and including the second Saturday after the first day of classes tuition will be retained in the following amount:

Full-time study	\$50.00
Part-time study	25.00

After the second Saturday after the first day of classes in the term, the above amount is retained plus an additional percentage of the remaining tuition (as indicated in the schedule below) for each week, or part of a week, of the term up to the date on which the student's written notice of withdrawal is received by the Registrar.

**ADJUSTMENT SCHEDULE**

	<i>Minimum Fees Retained</i>	<i>Percentage of Remaining Tuition Retained</i>
Second Saturday after first day of classes	\$25 or \$50	0
Following week	25 or 50	10
Second following week	25 or 50	20
Third following week	25 or 50	30
Fourth following week	25 or 50	45

Fifth following week	25 or 50	60
Sixth following week	25 or 50	75
Seventh following week	25 or 50	90
Eighth following week	25 or 50	100 (no adjustment)

#### STUDENT HEALTH AND HOSPITAL FEE

The student health and hospital fee is used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service. A student who already carries hospital insurance will be charged \$40.

A physical examination (including x-ray and tuberculin tests) will be given each student in the professional courses during the first term of attendance. Further physical examinations will be given during the training period, whenever it is deemed advisable.

A student who requires hospitalization will be taken care of either in the wards of the Medical Center, or elsewhere, under his hospitalization insurance policy.

Daily office hours are held by the Student Health Service, Room 2005B, twentieth floor, Black Medical Research Building. Members of the Health Service are available to attend ill students who live near the Medical Center. Students residing in University residence halls on the Morningside campus receive medical care through the Columbia University Health Service in the Clark Building of St. Luke's Hospital.

#### APPLICATION OR RENEWAL OF APPLICATION FOR A DEGREE OR CERTIFICATE

A candidate for a degree or certificate must file application by the date specified in the Academic Calendar. If the degree or certificate is not earned by the next regular time for the issuance of diplomas subsequent to the date of filing, the application may be renewed for a fee of \$1 each time that the candidate chooses to come up for consideration. Degrees and certificates are awarded three times a year—in October, February, and May.

#### ► ESTIMATED EXPENSES

UNIVERSITY EXPENSES (PER YEAR)	B.S. DEGREE AND CERTIFICATE PROGRAMS	M.S. DEGREE PROGRAM	
		<i>First Year</i>	<i>Second Year</i>
Tuition	\$2,930.00	\$3,124.00	\$2,641.00
Clinical fee	12.00	—	—
Health and hospital fee	98.00	98.00	98.00
<b>TOTAL</b>	<b>\$3,040.00</b>	<b>\$3,222.00</b>	<b>\$2,739.00</b>



## LIVING EXPENSES (PER ACADEMIC YEAR)

Room	\$550-\$800
Board	950
Subway and bus fares (within program)	75
<b>TOTAL</b>	<b>\$1,575-\$1,825</b>

The costs of books, materials, equipment, and uniforms varies with the program chosen. In physical therapy, degree candidates will spend, in all, about \$225; certificate candidates, about \$200. In occupational therapy, degree candidates will spend about \$250. Fees for materials and equipment in studio classes are payable at the time of registration and are subject to change in accord with market prices.

During clinical practice, occupational therapy students spend some four months in residence in hospitals where they receive full maintenance (room, board, and laundry). In some instances a maintenance arrangement is possible for a longer period of time. The living expenses of physical therapy students during the summer clinical practice periods will vary depending upon the accommodations provided by the hospitals to which they are assigned.

Students who are assigned to hospitals outside the local area will need to pay nominal transportation expenses.

**IMPORTANT NOTE:** According to Treasury decision 6291, under Section 162 of the 1954 Internal Revenue Code, income tax deductions are allowed in many instances for tuition and other educational expenses. Students are referred to the federal ruling on income tax deductions for teachers and other professional people seeking to maintain or improve skills required in their employment.

## ► HOUSING

The University provides limited housing for undergraduate and graduate men and women who are regularly registered either for an approved program of full-time academic work or for work being done on a doctoral dissertation. The rates below are for the academic year 1972-1973. The rates for the academic year 1973-1974 are not expected to increase by more than 5 percent.

Housing for the summer term is also available. Please consult the offices of the residences listed below.

### ON THE MORNINGSIDE CAMPUS

Johnson Hall is the University residence hall for women. Rates for the academic year range from \$610 to \$935 for single rooms and from \$570 to \$825 per person for double rooms or two-room suites. Application should be made immediately after receiving a letter of acceptance from the program. Further information and application forms will be furnished on request by the Residence Office, Johnson Hall, 411 West 116th Street, New York, N.Y. 10027.

Rates in the men's residence halls range from \$355 to \$795, with \$670 the average rate. Inquiries should be directed as early as possible to the Residence Halls Office, 125 Livingston Hall, New York, N.Y. 10027.



**AT THE MEDICAL CENTER**

Anna C. Maxwell Hall is the residence of the Department of Nursing, but rooms are also available to men and women registered in other full-time programs at the Medical Center. All undergraduate students are required to pay a comprehensive fee for room and board. The inclusive fee for the academic year is \$1,120, half of which is payable each term at registration. Graduate students may elect the comprehensive plan or may pay \$97.50 a month for room alone. Apply directly to the Director of Residence, Maxwell Hall, 179 Fort Washington Avenue, New York, N.Y. 10032.

Housing for married students is available at Bard Haven, 100 Haven Avenue, near the Medical Center. Rates for air-conditioned unfurnished apartments range from \$160 to \$200 a month. Requests for further information should be directed to Miss McCarthy at the Office of University Housing, 400 West 119th Street, New York, N.Y. 10027.

**OFF CAMPUS**

Students who wish to live in furnished rooms or apartments off campus may consult the Columbia University Registry of Off-Campus Accommodations, 401 West 117th Street, New York, N.Y. 10027, for information.

International House, a privately owned student residence near the Morningside campus, has rooms for about five hundred graduate students, both foreign and American. Rates are \$92 to \$117 a month, including continental breakfast. To be eligible for admission a student must be at least twenty-one years old and must be registered for a minimum of 12 points or for a program of full-time research. Inquiries should be addressed to the Committee on Admissions, International House, 500 Riverside Drive, New York, N. Y. 10027.

**► FINANCIAL AID**

Financial aid programs are administered without regard to race, creed, color, national origin, or sex.

**LOANS TO STUDENTS**

Long-term loans at low interest rates are available from the University for tuition and fees, and under certain circumstances, for living expenses. Returning students should apply well in advance of August 1, for the autumn term, and of December 1, for the spring term. New students should apply by June 30. Applications should be filed with the director of the program in which the student is enrolled.

Many states (among them Maine, Massachusetts, New Jersey, and New York) have loan funds available to their residents who are United States citizens, and federal loan funds are available to full-time students under the National Defense Student Loan Program (Title II of the National Defense Education Act of 1958).

For further information on loans, consult either the appropriate director or the Office of Financial Aid.

#### **SCHOLARSHIPS AND TRAINEESHIPS**

A limited number of scholarships are available to students in occupational therapy and in physical therapy by direct application to the agencies concerned: the New York Occupational Therapy Association; the National Association of Business Clubs; the National Society for Crippled Children and Adults; and other foundations and local service organization known personally to the student. Brochures concerning sources of financial assistance are available from the American Physical Therapy Association, 1156 15th Street, N.W., Washington, D.C. 20005, and the American Occupational Therapy Association, 6000 Executive Boulevard, Suite 200, Wilco Building, Rockville, Md. 20852.

#### **NEW YORK STATE SCHOLAR INCENTIVE AWARDS**

Any student who has been a legal resident of New York State for the preceding year is entitled to a Scholar Incentive Award for each term in which he is registered as a full-time degree candidate. The amount of this award is based upon the net taxable balance of his income and the income of those responsible for his support, as reported on the New York State income tax return for the previous calendar year.

Further information and application forms may be obtained from the Department of Education, Regents Examination and Scholarship Center, Albany, N.Y. 12201. Application for awards should be filed two months in advance of the beginning of the term for which the grant is to apply.

### **► STUDENT EMPLOYMENT**

A student who needs to earn part of his expenses by working part time during the academic year, or either part or full time during the summer, should apply to the Office of Student Employment, 206 Foreign Student Center (on the Morning-side campus). The facilities of the Office are available to all registered students of the University, staff members, and husbands and wives of students.

#### **TERM-TIME POSITIONS**

Students should register for term-time positions after class schedules are fixed, because many jobs have definite hour specifications.

Term-time positions available through the Office are generally characterized by the following:

1. They usually entail fifteen or twenty hours of work a week—in three-hour or four-hour sequences every day at the same time, Monday through Friday. Schedules vary with individual employers. Evening and weekend positions are also available. Some positions are downtown and require commuting from the campus.

2. The rate of pay is from \$1.80 to \$3.50 an hour. The on-campus minimum wage is \$2 an hour.

3. Most positions are of a clerical or unskilled nature. Some may require a certain amount of manual labor.
4. Typing, computer programming, and tutoring are the only specialized skills for which there is much demand.

#### SUMMER POSITIONS

A wide variety of part- and full-time positions are available, depending upon the applicant's education and experience. Camp counselor positions are readily available. Professional and specialized positions are rare, even at the graduate level. Interviews for summer employment begin at the start of the spring term.

#### WORK-STUDY PROGRAM

The HEW College Work-Study Program is an employment program for students in need of financial assistance. Full-time matriculated students who are U.S. citizens (or who have permanent residence status) should verify their eligibility for the program by consulting the financial aid officer of their school before applying to the Office of Student Employment.

Part-time jobs during the academic year and full-time jobs during the summer, including positions as clerical workers, casework aides, research assistants, tutors, and computer programmers, are available. Field-work positions through the Urban Corps may also be available. The rate of pay is from \$2 to \$3.25 an hour.

#### WIVES AND HUSBANDS OF STUDENTS

Wives and husbands of students may also register with the Office for term-time work. Those who are interested in full-time jobs on the campus should contact the University Personnel Office, 209 Dodge. Most of these jobs are clerical or secretarial in nature, usually requiring some typing and, in some instances, stenography as well. Regular full-time University employees are eligible for a limited number of points of tuition exemption provided they meet the stated requirements of the Supporting Staff Plan (a copy of which may be obtained from the University Personnel Office, 313 Dodge), as well as the admission requirements of the school or division in which they wish to enroll. Tuition-exempt courses are taken primarily in evening classes in the School of General Studies.

### ► STUDENT ACTIVITIES

The Physical Therapy and Occupational Therapy Clubs are the student organizations which promote recreational, social, and professional activities. The facilities of the main campus at Broadway and 116th Street as well as those of the Medical Center are open to physical and occupational therapy students. *The University Student Handbook*, which is distributed from the school office at registration, gives complete details about the libraries, sports, religious activities, and social life on the campus, and the resources of New York City that students may enjoy at little expense.

Graduates of the physical and occupational therapy programs may have membership in the Alumni Federation of Columbia University.

# Academic Calendar, 1973-1974

## AUTUMN TERM

- Sept 5** Wednesday.\* Registration, including payment of fees.  
**6** Thursday. Classes begin.  
**14** Friday. Last day to change programs. No adjustment of fees for individual courses dropped after this date.  
**Oct 24** Wednesday. Award of October degrees and certificates.  
**Nov 5** Monday. Academic holiday.  
**6** Tuesday. Election day. Holiday.  
**22-25** Thursday-Sunday. Thanksgiving holidays.  
**Dec 3** Monday.† Last day to apply or reapply for February degrees and certificates.  
**14-21** Friday-Friday. Midyear examinations. Term ends.  
**22** Saturday, through January 15, 1974, Tuesday. Christmas holidays.

## SPRING TERM

- Jan 18** Friday.\* Registration, including payment of fees.  
**21** Monday. Classes begin.  
**30** Wednesday. Last day to change programs. No adjustment of fees for individual courses dropped after this date.  
**Feb 13** Wednesday. Award of February degrees and certificates.  
**18** Monday.† Last day to apply or reapply for May degrees and certificates.  
**Mar 10-17** Sunday-Sunday. Spring holidays.  
**May 3-10** Friday-Friday. Final examinations. Term ends.

## COMMENCEMENT

- May 12** Sunday. Baccalaureate Service.  
**15** Wednesday. Conferring of degrees and certificates.  
**Aug 1** Thursday.† Last day to apply or reapply for October degrees and certificates.

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\* Students allowed to register after the period specified must pay a late fee.

† Students who apply after this date must pay a late fee.





COURSES IN PHYSICAL THERAPY AND OCCUPATIONAL THERAPY ARE IN THE  
WILLIAM BLACK MEDICAL RESEARCH BUILDING OF THE  
COLLEGE OF PHYSICIANS AND SURGEONS



- To Reach the Medical Center:** By subway, the Washington Heights Express of the IND Eighth Avenue or the Van Cortland Park train of the IRT Seventh Avenue. By bus, Fifth Avenue Bus #4 or #5. By car, the Westside Highway exit at the George Washington Bridge. Parking facilities are available at West 164th Street and Fort Washington Avenue.

## To Columbia Students

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SOURCE OF CONTINUING REFERENCE.  
PLEASE SAVE IT. REPLACEMENT COPIES  
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MORE DIRECTLY SERVE YOUR EDUCATION.